

Figure 1B

Sequence alignment of HIV-1 p24 antigen from Group O (Ham 112) and Group M (HXB2) and HIV-2 p26 antigen from subtype A (D194)

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                                helix A          helix B
                                ~~~~~~          ~~~~~~
HIV-1'O'  1 PVVPNAQGQMIHQALSPRTLNAWVKAVEEKAFNPEIIPMFMALESEGAIPY  50
           |:| | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-1'M'  1 PIVQNIQGQMVHQALSPRTLNAWVKVVEEKAFSPEVIPMFSALESEGATPQ  50
           |:| | | | | | | | | | | | | | | | | | | | | | | | |
HIV-2'A'  1 P.VQQAGGNYIHVPLSPRTLNAWVKLVEEKKFGAEVVPVGFQALSEGCTPY  49
           |:| | | | | | | | | | | | | | | | | | | | | | | | |

                                helix C          helix D
                                ~~~~~~          ~~~~~~
HIV-1'O'  51 DINIMLNAIGGHQALQVLKEVINEEAADWDRSHPPVVGPLPPGQIREPT  100
           |:| | | | | | | | | | | | | | | | | | | | | | | | |
HIV-1'M'  51 DLNNTMLNTVGGHQAAMQMLKETINEEAAEWDRVHPVHAGPIAPGQMREPR  100
           |:| | | | | | | | | | | | | | | | | | | | | | | | |
HIV-2'A'  50 DINQMLNCVGDHQAAMQIIREIINEEAADWDAQHPIP.GPLPAGQLRDP  98
           |:| | | | | | | | | | | | | | | | | | | | | | | | |

                                helix E          helix F          helix G
                                ~~~~~~          ~~~~~~          ~~~~~~
HIV-1'O'  101 GSDIAGTTSTQEQVHWITRANHPVPVPGDIYRKWIVLGLNKMVKMYSPTS  150
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-1'M'  101 GSDIAGTTSTLQEIQGWMTN.NPPIPVGEIYKRWIIILGLNKIVRMYSPTS  149
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-2'A'  99 GSDIAGTTSTVDEQIQWYRQPNPVPVGNIRRWIQIGLQKCVRMYNPTN  148
           | | | | | | | | | | | | | | | | | | | | | | | | | |

                                helix H          helix I          helix J
                                ~~~~~~          ~~~~~~          ~~~~~~
                                ***** (MHR)
HIV-1'O'  151 ILDIKQGPKEPFRDYVDRFYKTLRAEQAIQDVKNWMTETLLVQNANPDCK  200
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-1'M'  150 ILDIRQGPKEPFRDYVDRFYKTLRAEQASQEVKNWMTETLLVQNANPDCK  199
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-2'A'  149 ILDVKQGPKESFQSYVDRFYKSLRAEQTDPAVKNWMTQTLLIQNANPDCK  198
           | | | | | | | | | | | | | | | | | | | | | | | | | |

                                J          helix K
                                ~~~~~~          ~~~~~~
HIV-1'O'  201 QILKALGPGATLEEMMVACQGVGGPTHKAKLL  232
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-1'M'  200 TILKALGPAATLEEMMTACQGVGGPGHKARVL  231
           | | | | | | | | | | | | | | | | | | | | | | | | | |
HIV-2'A'  199 LVLKGLGMNPTLEEMLTACQGVGGPSQKARLM  230
           | | | | | | | | | | | | | | | | | | | | | | | | | |

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000001" 00000000

Figure 2A. Monoclonal antibodies 103-350-474 and 117-289-555 binding to p24 peptides

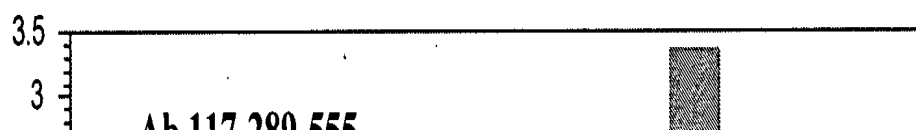
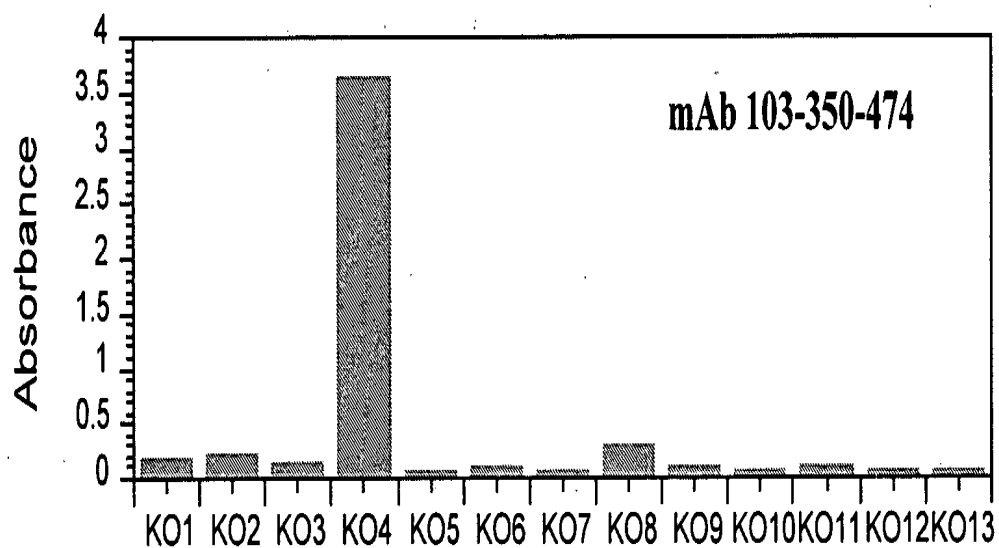
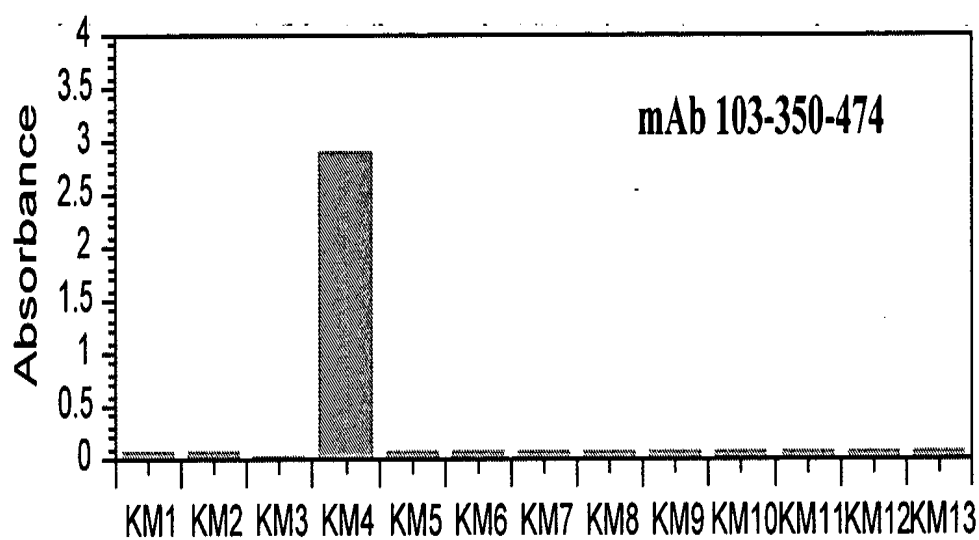


Figure 2B. Monoclonal antibodies 115-303-620, 120A-270-108 and 115B-151-423 binding to p24 peptides

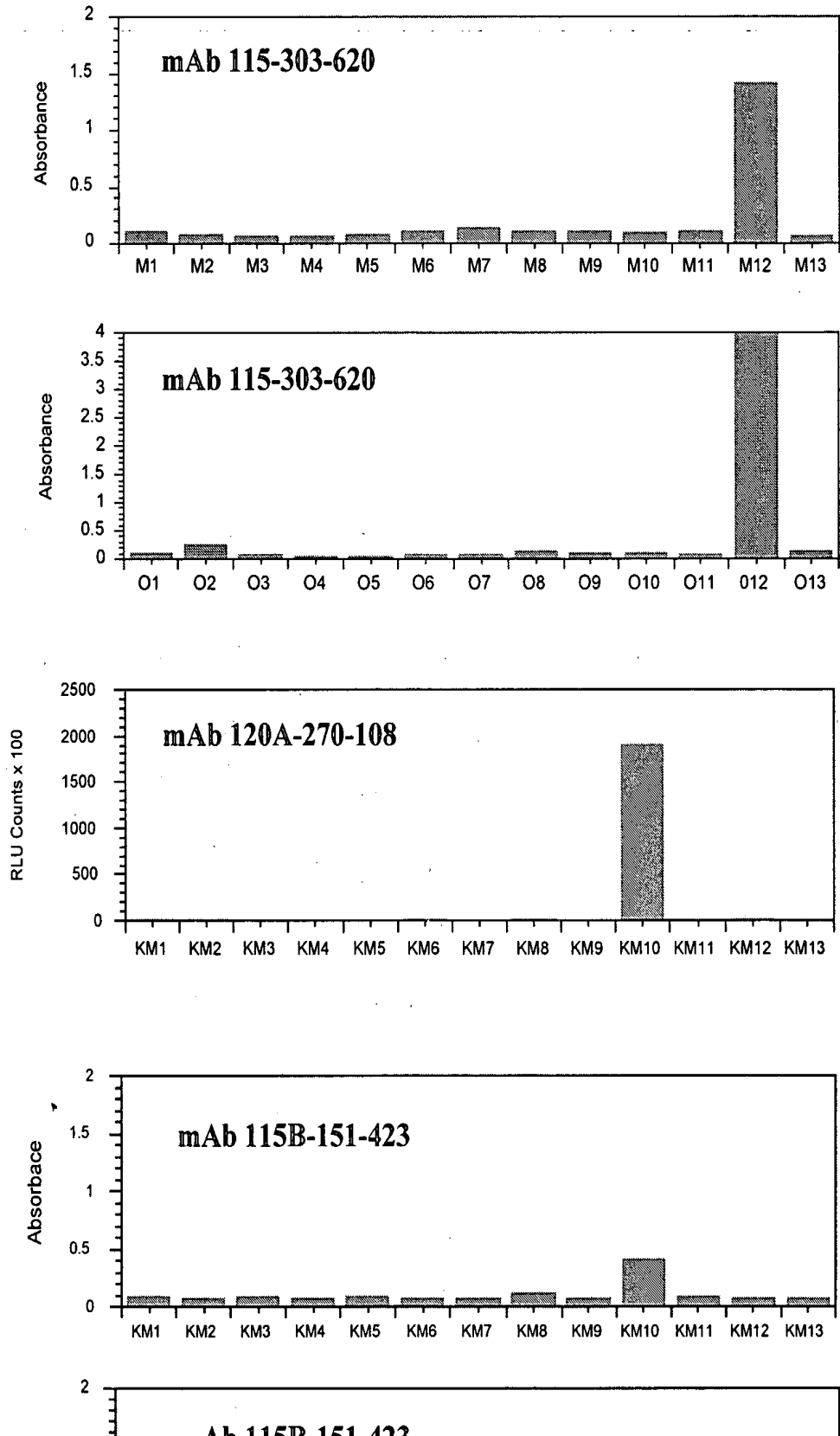
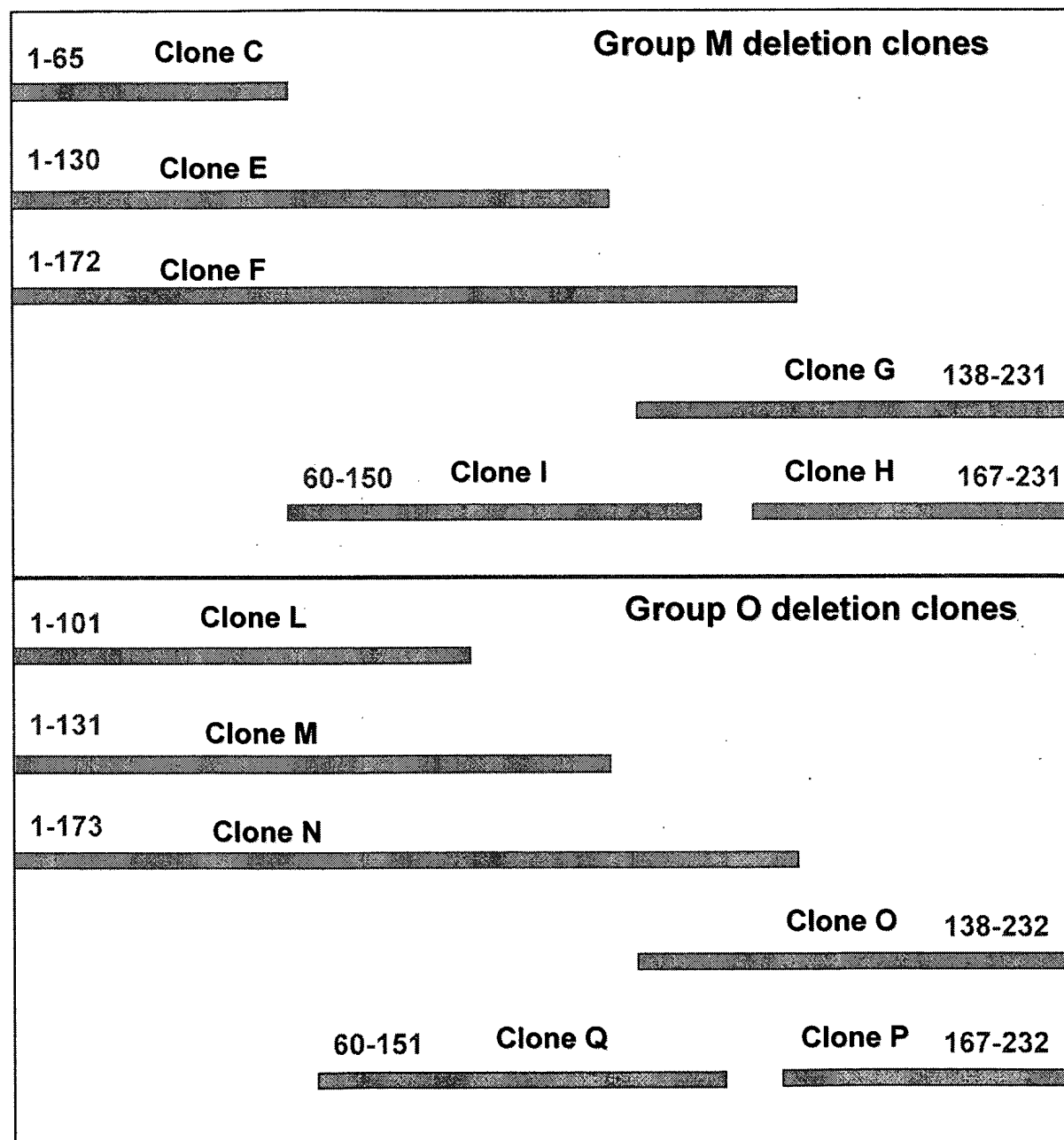
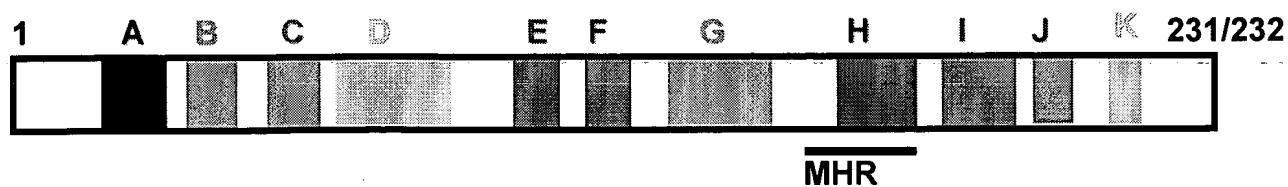


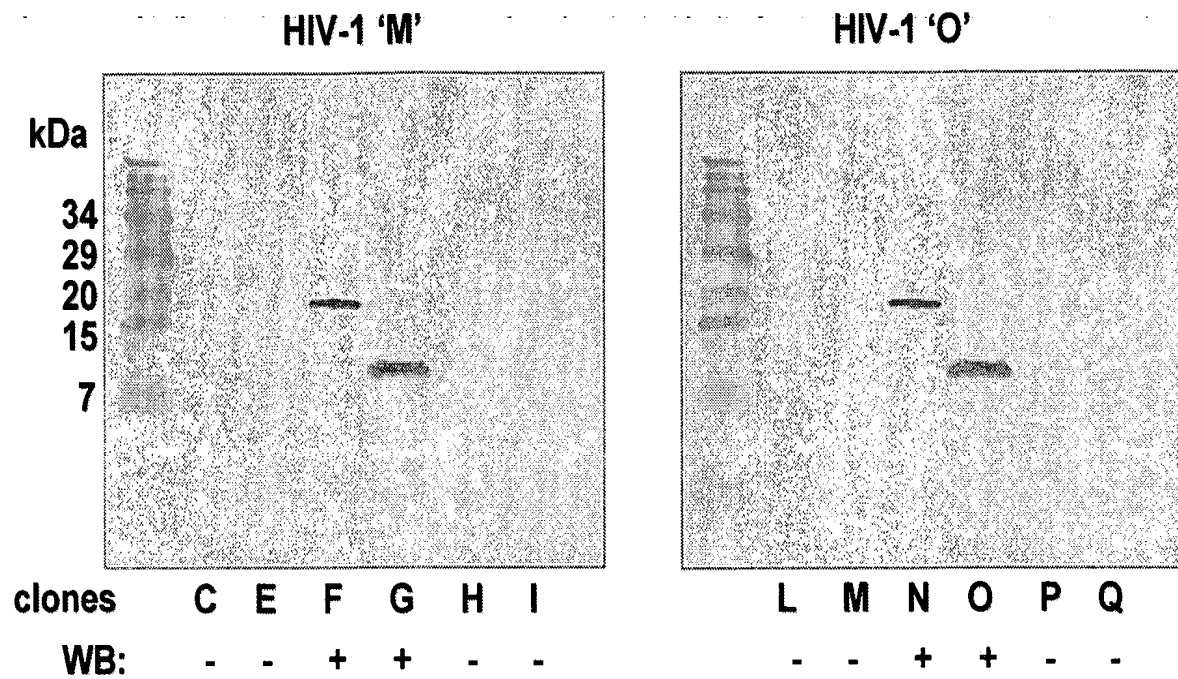
Figure 3 Location of deletion clones derived from HIV-1 group M and O p24



005027 321E200

Figure 4 Western blots of mAbs against p24 deletion clones

Western blot of mAb 115B-151-423 against deletion



Western blot of mAb 108-394-470 against deletion

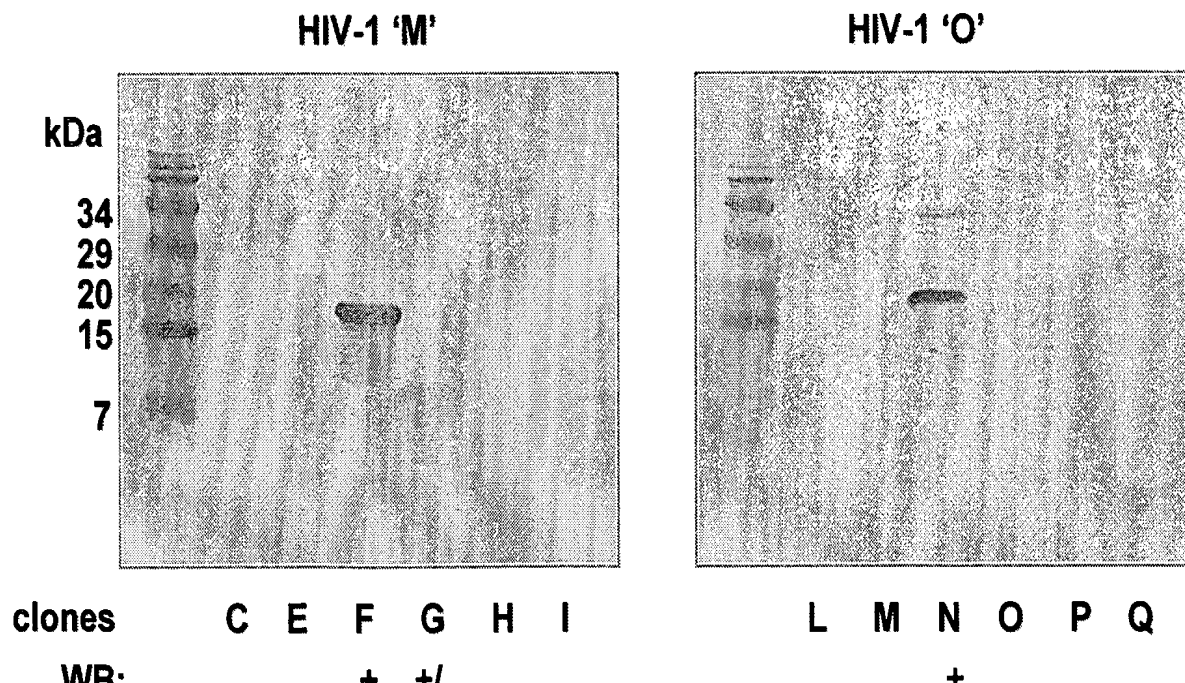


Figure 5 HIV-1 p24 epitopes recognized by p24 Mabs

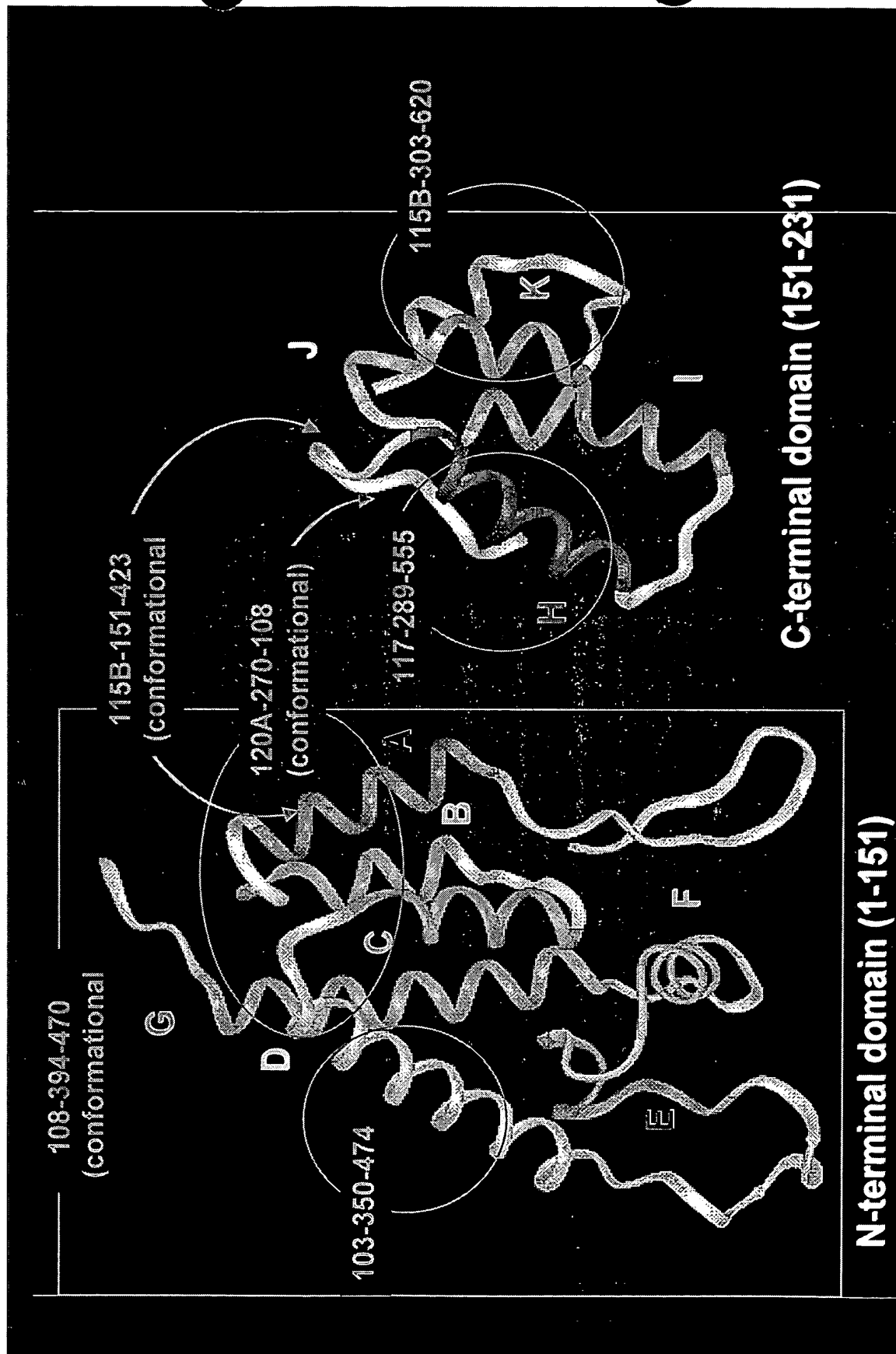


Figure 6.

**HIV-1 p24M detection by 120A-270-108-uParticle and
115B-151-423-ACR on Prism Standalone instrument**

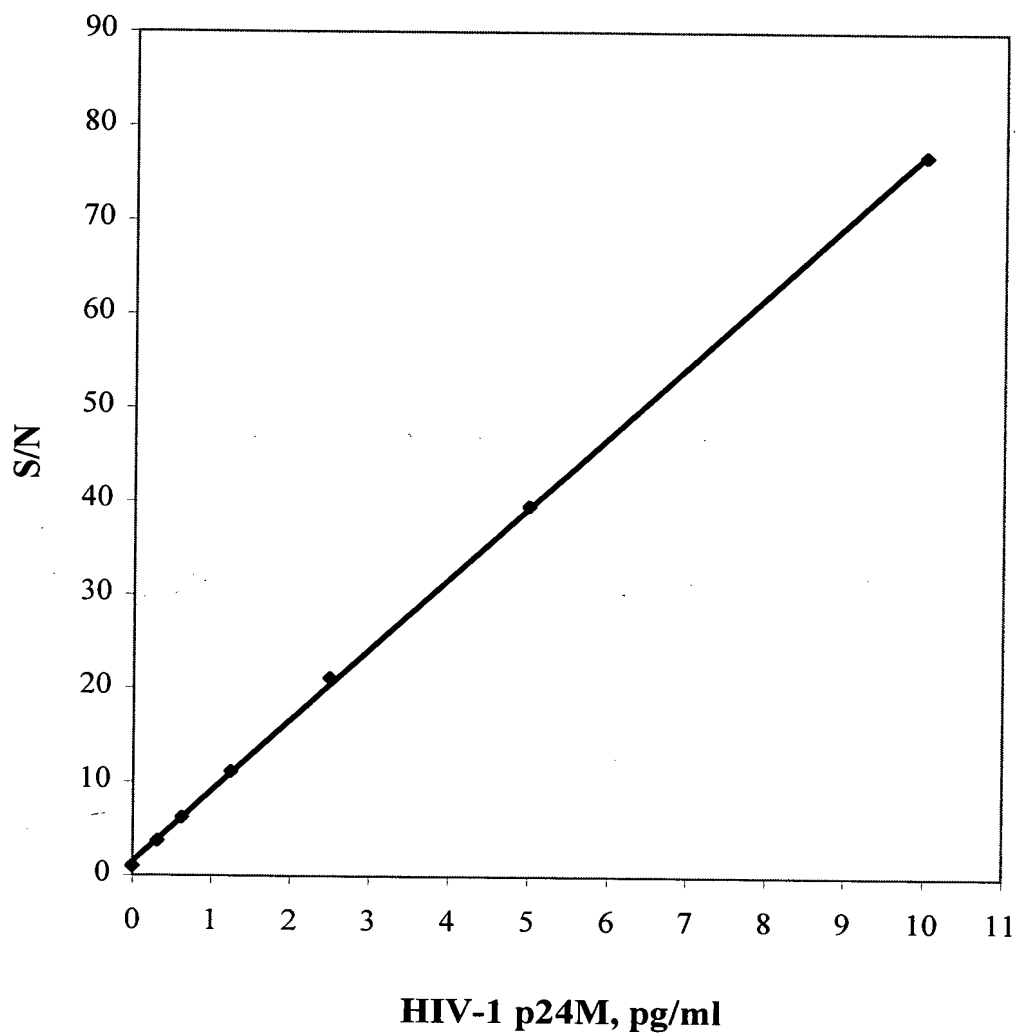


Figure 7.

HIV-1 rp24O detection by 120A-270-108-uParticle and 115B-151-423-ACR on Prism Standalone instrument

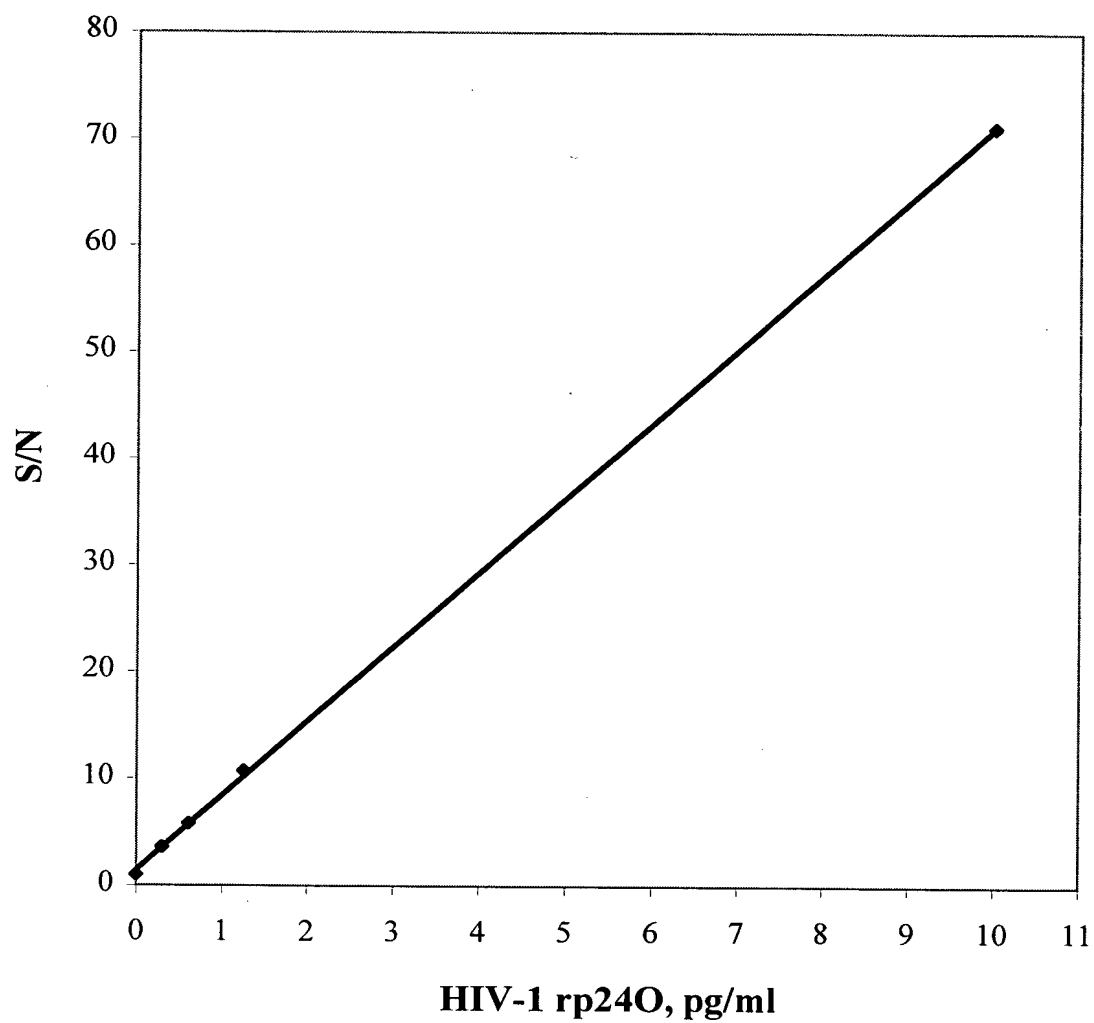


Figure 8.

**HIV-2 rp26 detection by 120A-270-108-uParticle and
115B-151-423-ACR on Prism Standalone instrument**

